

AMENDED CLAIMS

1. A long life gas engine oil comprising a major amount of an oil of lubricating viscosity and a minor amount of additives comprising phenolic anti oxidants, a low ash gas engine oil detergent system having a TBN of about 50 to about 300, and viscosity index improver, but which does not contain aminic anti oxidant, wherein the oil of lubricating viscosity has a viscosity of between about 9 to 13 cSt at 100°C, said oil of lubricating viscosity being a synthetic, hydrocracked or solvent refined oil or mixtures thereof, wherein the phenolic anti oxidant is present in an amount in the range of about 0.1 to 2 vol% and the viscosity index improver is present in an amount in the range of about 0.1 to 3 vol% and wherein the gas engine oil has a low ash content.

4. The long life gas engine oil of claim 10 wherein the phenolic anti oxidant is present in an amount in the range of about 0.3 to 1.75 vol% and the viscosity index improver is present in an amount in the range of about 0.2 to 2 vol%.

6. A method for enhancing the life of gas engine oils as evidenced by a reduction in viscosity increase, oxidation, nitration, TAN increase, and TBN depletion, comprising adding to a gas engine oil base stock having a viscosity at 100°C of from 9 to 13 cSt, the base stock being a synthetic, hydrocracked or solvent refined oil or mixture thereof, a minor amount of an anti oxidant in the range of about 0.1 to 2 vol% and a minor amount of a viscosity index improver in the range of about 0.1 to 3 vol%, wherein the anti oxidant is selected from the group consisting of phenolic anti oxidants and a minor amount of a low ash gas engine oil detergent system having a TBN of about 50 to about 300 wherein the gas engine oil has a low ash content.